BRUHAT BANGALORE MAHANAGARA PALIKE

Modified Schedule-B

Name of Work:Restoration and Improvement of Sainagara, Best County, Bharathnagar and Chandrappa Layout, Hill side meadows layout, Subhash Chandra Bose layout and surrounding areas in ward no-03 of Yelahanka New Town Sub division (PACKAGE NO-14)

Sl No	Description of Work	Unit	Quantity as per Estimate	Rates	
				In figures	In Words
1	Removing and resetting of footpath slab	Sqm	0.00	210.91	Rupees Two Hundred Ten And Paise Ninety One Only
2	KSRRB 300-1. Earthwork excavation by manual means for roads, drains & similar works in ordinary soil excavated surface levelled and sides neatly dressed, the disposed earth to be levelled neatly after breaking of clods complete as per specifications.	Cum	7423.43	217.43	Rupees Two Hundred Seventeen And Paise Forty Three Only
3	KSRRB M2100-10. Providing and laying Plain cement concrete of mix 1:4:8 with OPC @ 180kgs, with crushed 40mm and down size graded granite metal coarse aggregates @0.89cum and fine aggregates @ 0.46cum, in foundation mechanically mixed, placed in foundation and compacted by vibration including curing for 14 days including cost of all materials, labour, HOM curing, form works, scaffolding and centering complete as per specifications.	Cum	1126.58	5675.99	Rupees Five Thousand Six Hundred Seventy Five And Paise Ninety Nine Only
4	KSRB 4.2.2 : Providing and laying in position plain cement concrete of mix M20 withOPC cement @ 300kgs, with 20mm and down size graded granite metal coarse aggregates @0.69cum and fine aggregates @0.43cum machine mixed, well compacted for walls and bottom including centering, shuttering, cost of materials, HOM of machinery, curing etc, complete excluding cost of stell as per MORTH specification NO. 1500, 1700, 2200. Including cost of materials, labour, HOM complete as per specifications.	Cum	2285.72	7497.22	Rupees Seven Thousand Four Hundred Ninety Seven And Paise Twenty Two Only
5	KSRB 4.9.2 : Providing T.M.T steel reinforcement for R.C.C work including straightening, cutting, bending, hooking, placing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost of materials, labour, HOM complete as per specifications.	Tonne	136.34	80948.07	Rupees Eighty Thousand Nine Hundred Forty Eight And Paise Seven Only
6	Providing and Fixing Pre cast covering slab 100mm thick made out of CC, jelly 20mm Down Size with steel reinforcement including form work, curing, includeing cost of all materials labour,hire charges of machinery, loading, unloading, lead abd lift, transportation etc complete as per engineer incharge	Sqm	5684.67	1941.22	Rupees One Thousand Nine Hundred Forty One And Paise Twenty Two Only
7	Providing and fixing RCC precast cover slab of 230mm thick for drain in cement concrete 1:1.5:3 using graded granite jelly 20mm and down size with steel reinforcement, including form work, lift charges, curing and concrete finished surfaces on both sides etc, complete and as per drawing and the directions of Engineer in-charge.	Sqm	208.81	4530.86	Rupees Four Thousand Five Hundred Thirty And Paise Eighty Six Only
8	KSRRB M400-19. Construction of Median and island above road level with approved material deposited from soil deposits, spread, sloped and compacted as per Clause 400.7 complete as per specifications. MORTH Specification No.	Cum	0.00	223.76	Rupees Two Hundred Twenty Three And Paise Seventy Six Only
9	KSRB 14.6 : Providing and laying heavy duty cobble stones interlock pavers, using cement and course sand for manufacture of blocks of approved size, shape and colour with a minimum compressive strength of 281 kg per sqm over 50mm thick sand bed (average thickness) and compacting with plate vibrator having 3 tons compaction force thereby forcing part of sand underneath to come up in between joints, final compaction of paver surface joints into its final level, including cost of materials, labour and HOM complete as per specifications.- do - heavy duty cobble stones 60mm thick	Sqm	2559.39	1127.34	Rupees One Thousand One Hundred Twenty Seven And Paise Thirty Four Only

	Description of Work	Unit	Quantity as per Estimate	Rates	
				in figures	In Words
10	KSRB 4-1.6 ; Providing and laying in position plain cement concrete of Mix 1:2:4 with OPC @ 240kgs, with 20mm and down size graded granite metal coarse aggregates @ 0.878 cum and fine aggregtes @ 0.53cum, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation, plinth and cills, including cost of all materials, labour, HOM curing complete as per specifications.	Cum	536.37	6089.85	Rupees Six Thousand Eighty Nine And Paise Eighty Five Only
11	KSRB 5-14.1 : Providing and constructing load bearing wall with solid concrete blocks having block density not less than 1800kg/m3 having a minimum average compressive strength of 5.00 N/mm2 confirming to IS 2185 (Part 1):2005 and constructed with CM 1:4, as per IS 2572:2005 including cost of all materials labour charges, scaffolding, curing, hire charges of machineries etc., complete as per specifications. - do - with solid concrete blocks of size 400x150x200mm	Sqm	0.00	1020.28	Rupees One Thousand Twenty And Paise Twenty Eight Only
12	Providing and fixing pre cast solid cement concrete kerb stones made out of C.C. 1:2:4 with top and bottom width 114 and 165 mm respectively, 400mm high and 450mm in length finished with CM 1:3 plastering and finishing cutting, including form work, curing, including cost of all materials, labour, hire charges of machinery, loading, unloading, lead and lift, transportation etc., complete.	Nos	16910.00	436.80	Rupees Four Hundred Thirty Six And Paise Eighty Only
13	KSRRB 800-1. Painting two coats after filling the surface with synthetic enamel paint in approved shades on new plastered concrete surfaces, with materials, labour complete as per specifications.	Sqm	2468.74	85.65	Rupees Eighty Five And Paise Sixty Five Only
14	KSRRB M300-14. Excavation for roadwork in all types of soil by mechanical means including cutting and loading to tippers,trimming bottom and side slopes, in accordance with requirements of lines, grades and cross sections, and transportation with a lead of 1.00 km and complete as per specifications.	Cum	5321.62	64.58	Rupees Sixty Four And Paise Fifty Eight Only
15	KSRRB 300-58. Compaction of original ground by mechanical means including filling in depression occuring during rolling including cost of all labour, HOM complete as per specifications.	Sqm	17389.78	6.42	Rupees Six And Paise Forty Two Only
16	Construction of granular sub-base Grading-V as Sub-base and drainage layer by providing coarse graded crushed stone aggregates of granite/trap/basalt material, mixing in a mechanical mix plant at OMC,Carriage of mixed material to work site, spreading in uniform layers with motor grader on prepared surface and compacting with vibratory power roller to achieve the 98 % proctor density, complete as per specifications. Clause 401 of MORTH V Revision.	Cum	2451.62	2014.87	Rupees Two Thousand Fourteen And Paise Eighty Seven Only
17	KSRRB M400-17. Providing, laying, spreading and compacting cushed stone aggregates of granite / trap / basalt to wet mix macadamspecifications including pre mixing the material with water at OMC in mechanical mix plant carriage of mixed materials by tipper to site, laying in uniform layers with paver in sub-base/base course on well prepared surface and compacting with vibratory roller to achieve the desired density complete as per specifications. MORTH Specification No. 406	Cum	3302.99	2021.29	Rupees Two Thousand Twenty One And Paise Twenty Nine Only
18	KSRRB M500-6. Providing and applying primer coat with S.S. bitumen emulsion on prepared surface of granular base such as WMM including cleaning of road surface and spraying primer at the rate of 0.60 kg / sqm using mechanical means complete as per specifications. Clause 502 of MORTH V revision	Sqm	16343.94	34.26	Rupees Thirty Four And Paise Twenty Six Only
19	KSRRB 500-7. Providing and applying tack coat using 80/100 grade bitumen(VG10) on the prepared black topped surfaces at 2.5 kg per 10 sqm, heating bitumen in boiler fitted with spray set (excluding cleaning of road surface) including cost of all materials, labour, HOM complete as per	Sqm	32727.59	12.85	Rupees Twelve And Paise Eighty Five Only
20	KSRRB M500-17. Providing and laying dense graded bituminous macadam using crushed aggregates of specified grading, premixed with VG30 grade bituminous binder and, transporting the hot mix to work site, laying to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction in all respects complete as per specifications. - do - using 40/60 TPH capacity H.M.P. with mechanical paver Gr-II (50 mm to 75 mm) with 4.5 % VG-30 Bitumen	Cum	817.19	7365.73	Rupees Seven Thousand Three Hundred Sixty Five And Paise Seventy Three Only

	Description of Work	Unit	Quantity as per Estimate	Rates	
				In figures	In Words
21	KSRRB M500-19. Providing and laying bituminous concrete using crushed aggregates of specified grading, premixed with bituminous binder and filler, transporting the hot mix to work site, laying with a paver finisher to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction in all respects complete as per specifications. - do - using40/60 TPH capacity H.M.P. with Mechanical Paver Gr-II (30 mm to 40 mm) with 5.4% VG-30 Bitumen	Cum	653.76	8534.82	Rupees Eight Thousand Five Hundred Thirty Four And Paise Eighty Two Only
22	KSRRB M800-13.Road Marking with Hot Applied Thermoplastic Compound with Reflectrising Glass Beads on Bituminous Surface/Concrete Surface: Providing and laying of hot applied thermoplastic compound 2.5 mm thick including reflectorising glass beads at 250 gms per sqm area, thickness of 2.5 mm is exclusive of surface applied glass beads as per IRC:35 standards specified. The finished surface to be level, uniform and free from streaks and holes complete as per specifications.	Sqm	535.55	459.29	Rupees Four Hundred Fifty Nine And Paise Twenty Nine Only
E1	KSRRB M600-1.Providing and Constructing dry lean cement concrete mix CC 1:5:10 base with OPC 25mm and down size graded granite metal coarse aggregate at 0.86cum and fine aggregates @0.58cum over a prepared sub-base, coarse and fine aggregate conforming to IS: 383-2016,aggregate cement ratio not to exceed 15:1, Aggregate gradation after blending to be as per Table 600-1,optimum moisture content to be determined during trial length construction, concrete strength not to be less than 10 Mpa at 7 days, mixed in a batching plant, transported to site, laid with a paver, compacting with 8-10 tonnes vibratory roller, finishing and curing complete as per specifications. do- with OPC at 150 kg/cum and coarse aggregate 0.86cum, fine aggregate 0.58cum using Concrete Batch mix Plant at 75 cum/hr capacity with fixed form paver. as per the direction of Engineer in Charge	Cum	156.90	4101.90	Rupees Four Thousand One Hundred One And Paise Ninety Only
E2	Constructing un-reinforced, plain cement concrete for pavements using Grade concrete M30 over a prepared base with OPC coarse aggregate at 0.69 cum. fine aggregates at 0.46 cum,Coarse and fine aggregate conforming to IS:383-2016, with Superplastizer at 3 lts conforming to IS 9103-2008. mixed in a concrete mixer of not less than 0.6 cum capacity and appropriate weigh batcher as per approved mix design, laid in approved fixed side form work (steel channel, laying and fixing of 125 micron thick polythene film, wedges, steel plates including levelling the form work as per drawing). & Spreading the concrete with shovels, rackers compacted using needle, screed and plate vibrator and finished with floaters in a continuous operation including provision of contraction, expansion, construction and longitudinal joints,including groove cutting charges, joint filler, separation membrane of impermiable plastic sheet of 125 micron, sealant primer, joint sealant, admixtures as approved, curing compound.as per the direction of Engineer in Charge	Cum	156.90	5690.64	Rupees Five Thousand Six Hundred Ninety And Paise Sixty Four Only

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